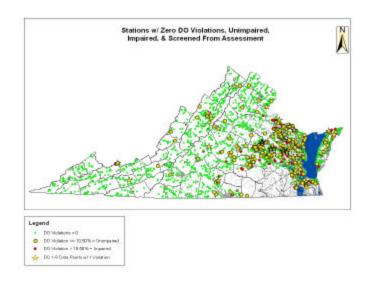
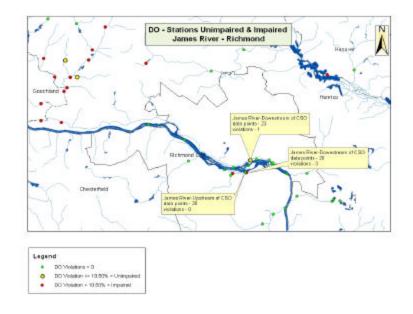
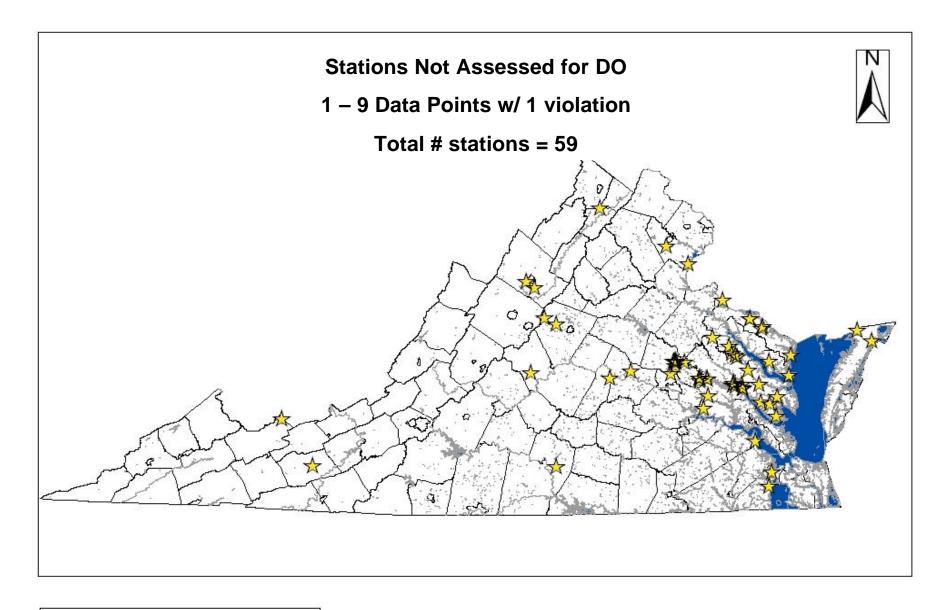
10.5% Rule

Maps Indicating Location of Assessed, Not Assessed Stations* For DO, pH, & Temperature





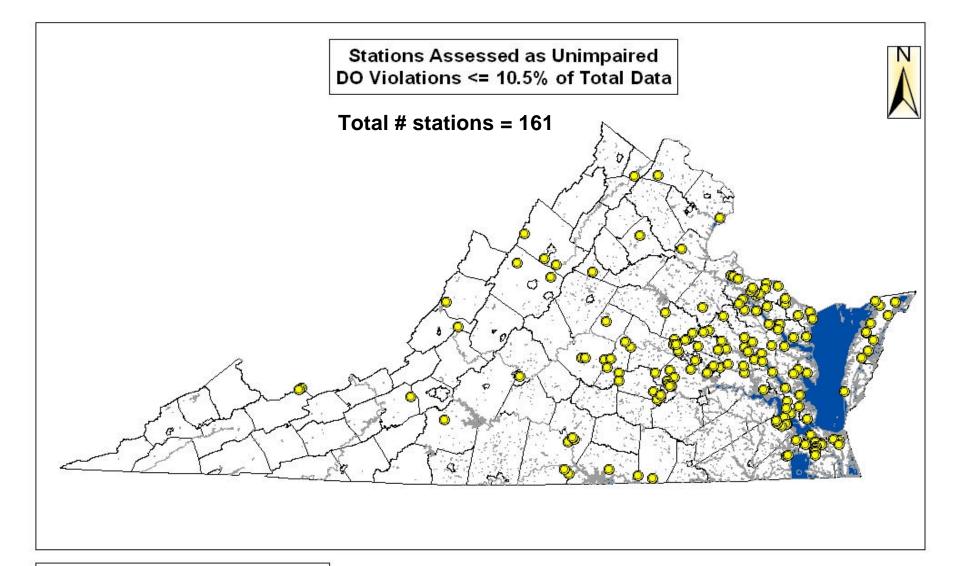
*Reservoir and Chowan Basin Stations Not Included



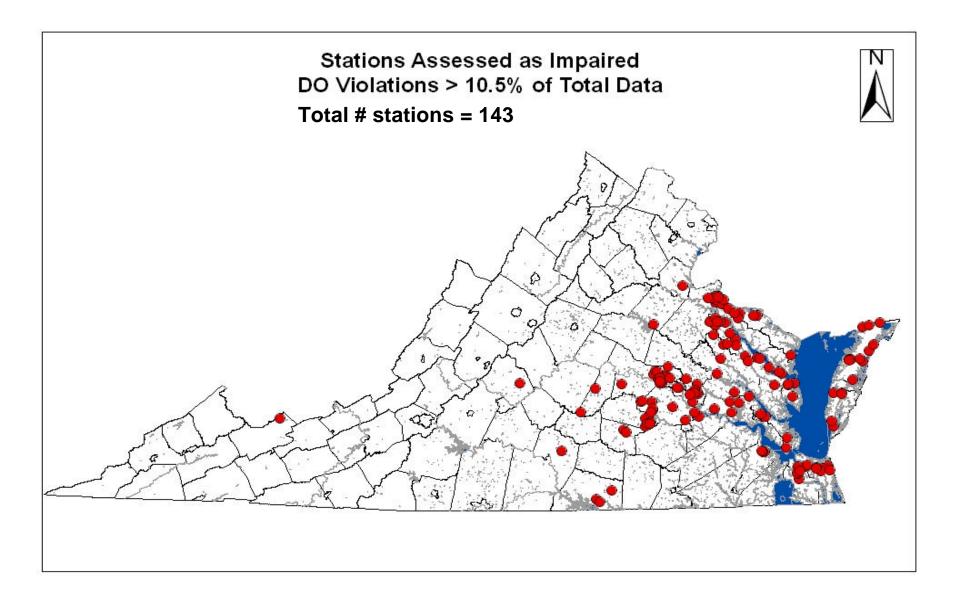


🜟 DO 1-9 Data Points w/ 1 Violation

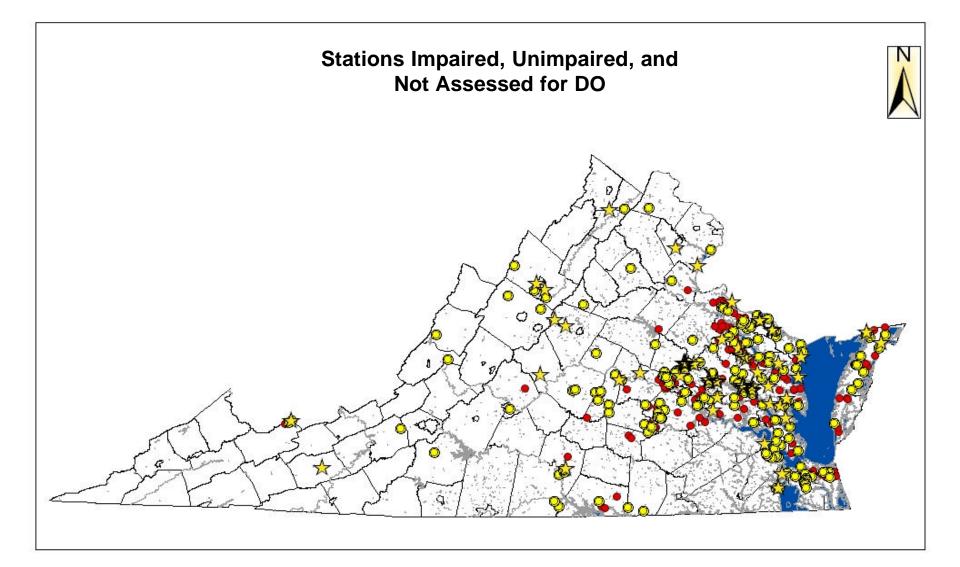
This slide shows stations that would not be assessed for DO because of the '2-hit rule' (less than 10 data points and only 1 hit are not assessed).



O DO Violation <= 10.50% = Unimpaired

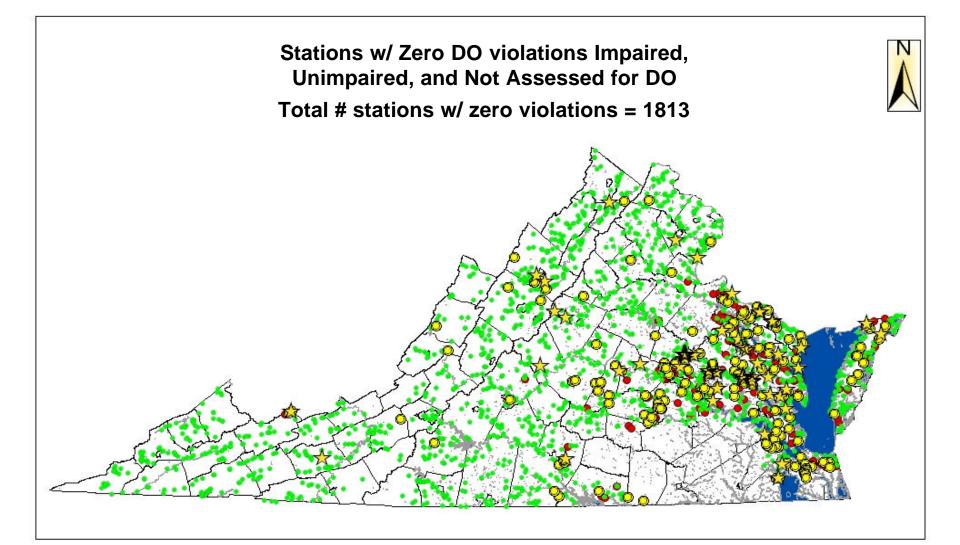


DO Violation > 10.50% = Impaired (No Resv.)



- O DO Violation <= 10.50% = Unimpaired
- DO Violation > 10.50% = Impaired

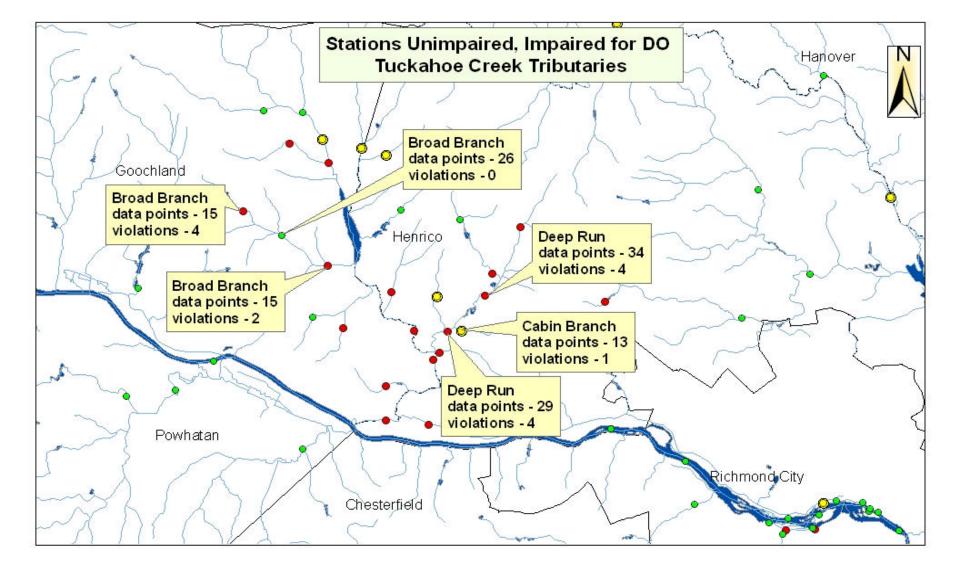




- DO Violations = 0
- DO Violation <= 10.50% = Unimpaired</p>
- DO Violation > 10.50% = Impaired
- A

10.5% Methodology in Action Tuckahoe Creek James Basin

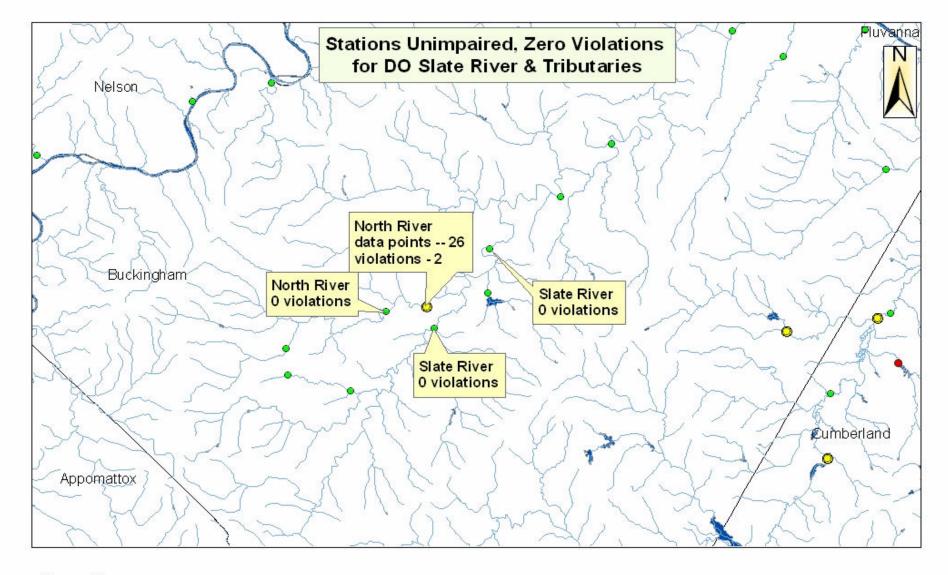
Note the co-location of stations with impairments and those with no impairments in the following slide in the same watershed.



- DO Violations = 0
- DO Violation <= 10.50% = Unimpaired</p>
- DO Violation > 10.50% = Impaired

10.5% Methodology in Action North and Slate Rivers James Basin

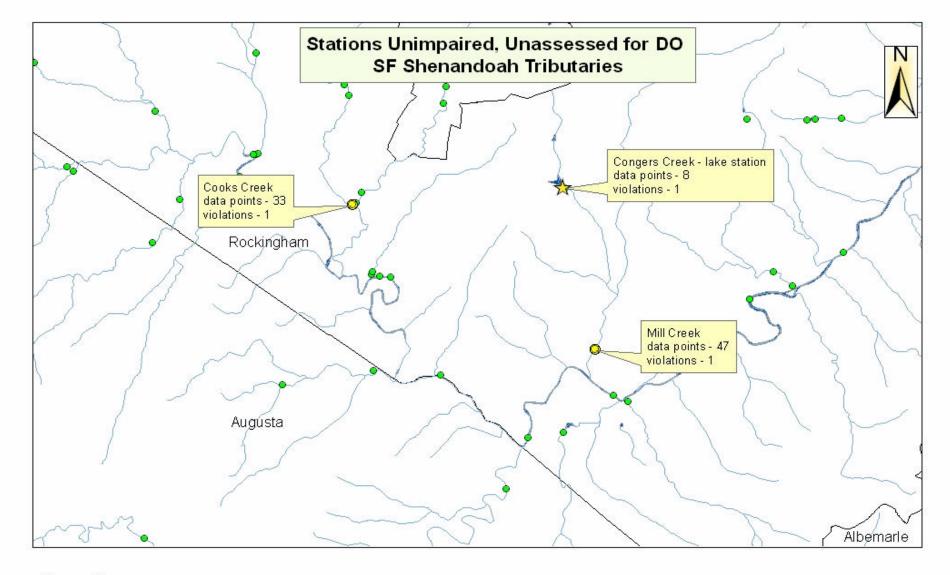
North River would be listed as impaired under 'no rules' scenario. Slate River downstream zero violations



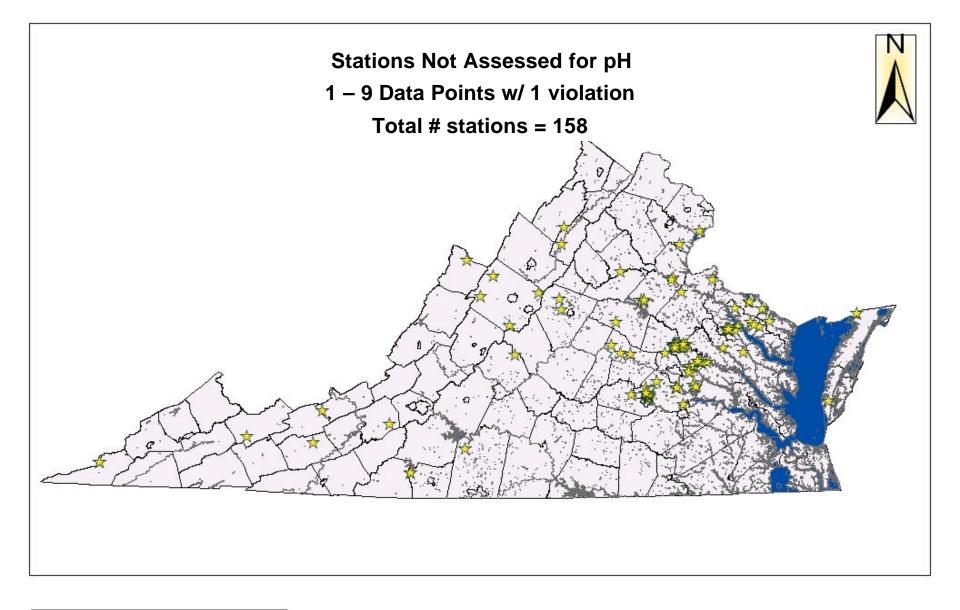
- DO Violations = 0
- DO Violation <= 10.50 % = Unimpaired</p>
- DO Violation > 10.50% = Impaired
- A

10.5% Methodology in Action Cooks, Congers, Mill Creeks SF Shenandoah

All would be listed as impaired under 'no rules' scenario.

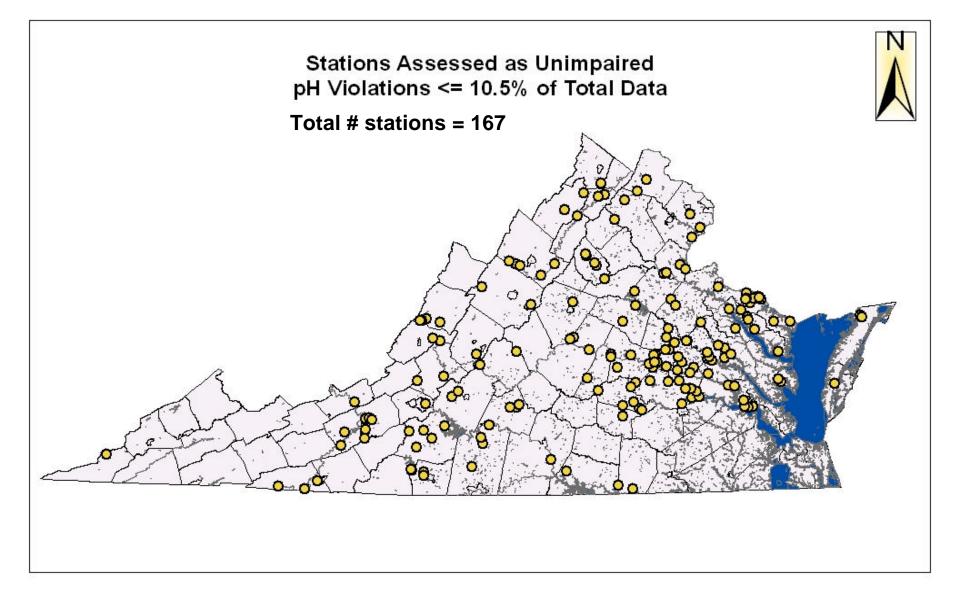


- DO Violations = 0
- DO Violation <= 10.50% = Unimpaired</p>
- DO Violation > 10.50% = Impaired
- *



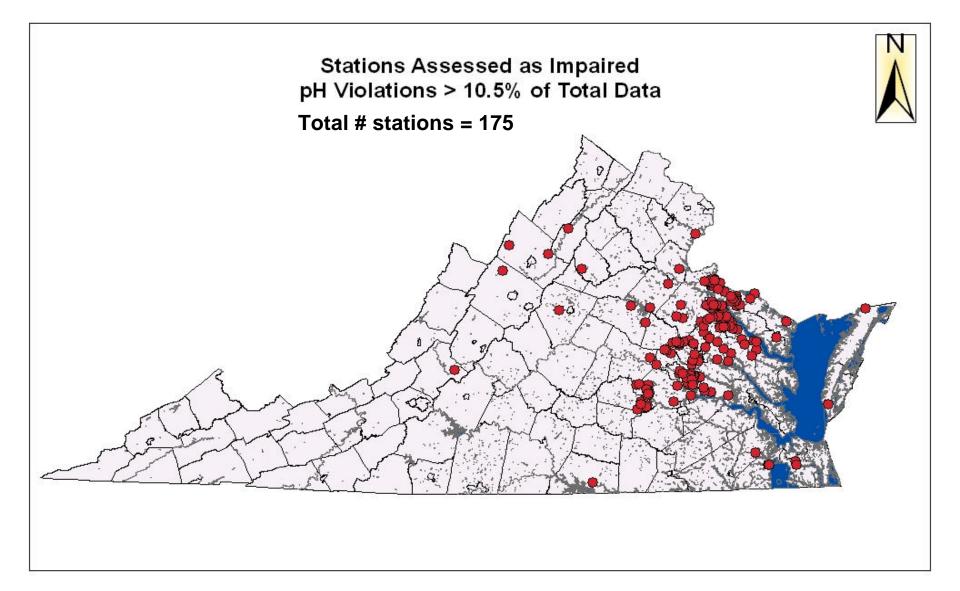


This slide shows stations that would not be assessed for pH because of the '2-hit rule' (less than 10 data points and only 1 hit are not assessed).

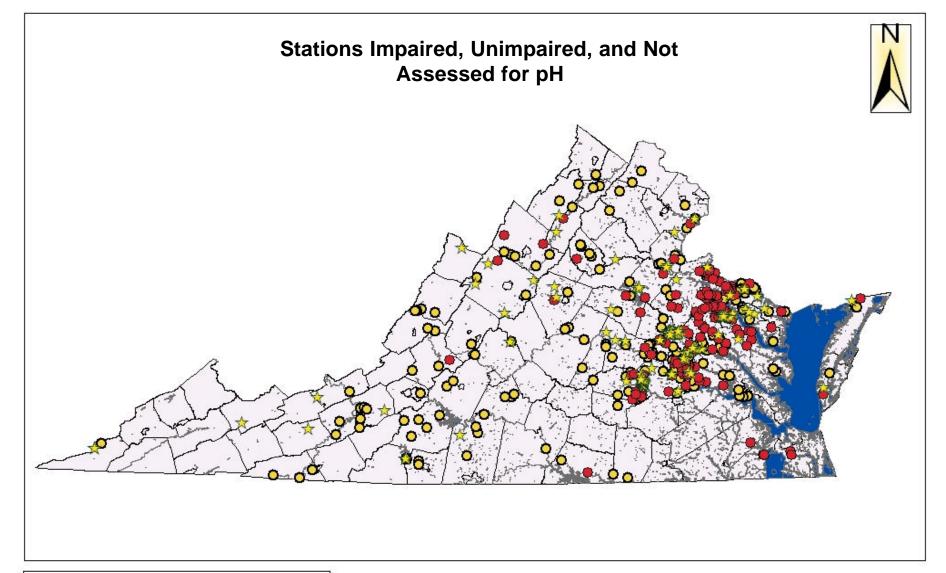




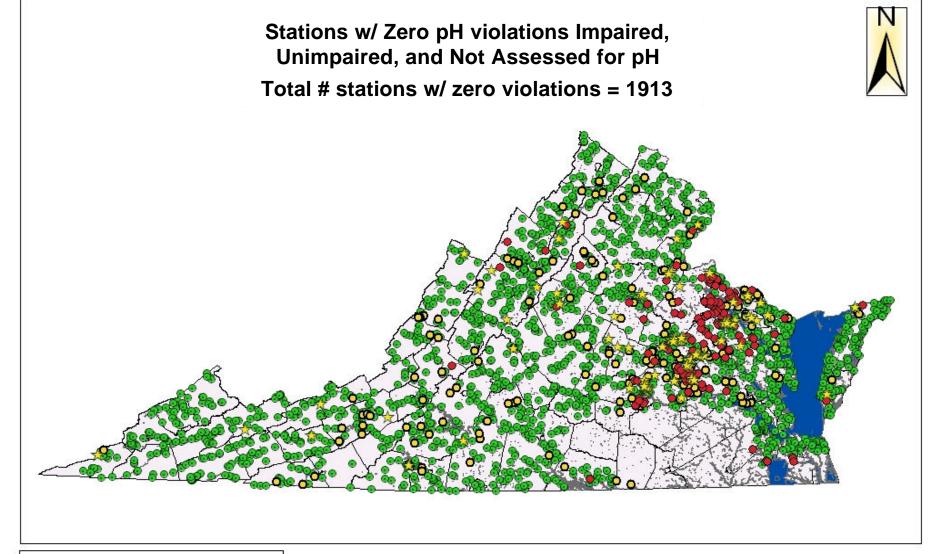
pH Violations <= 10.5% = Unimpaired



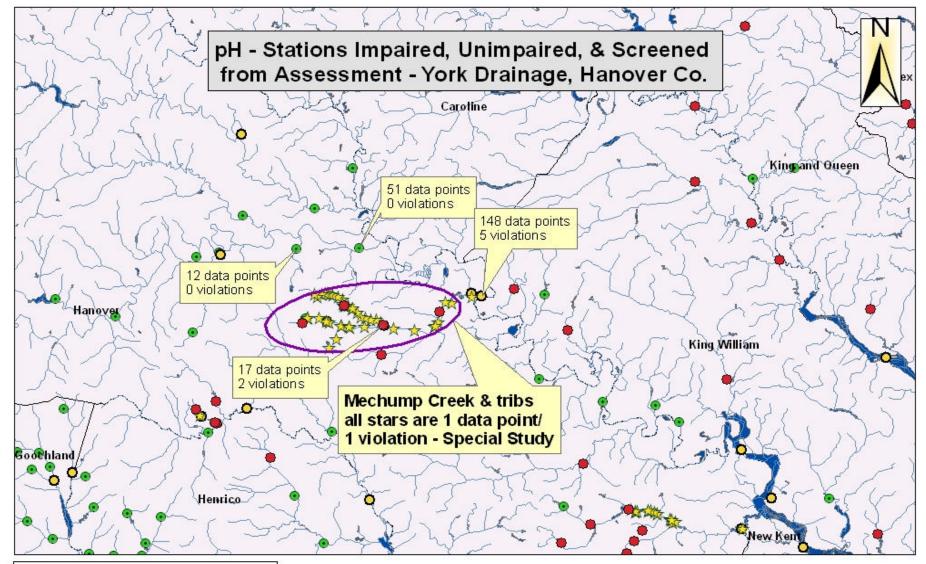
pH Violations > 10.5% = Impaired



- pH Violations <= 10.5% = Unimpaired</p>
- pH Violations > 10.5% = Impaired
- ★ pH 1 9 Data Points w/ 1 Violation



- pH Violations = 0 = Unimpaired
- pH Violations <= 10.5% = Unimpaired</p>
- pH Violations > 10.5% = Impaired
- pH 1 9 Data Points w/ 1 Violation



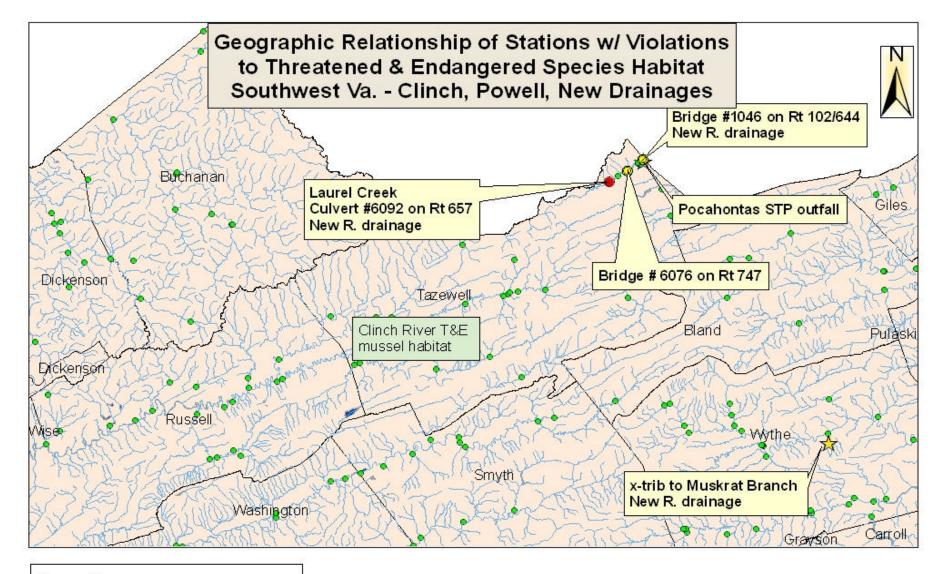
- pH Violations = 0 = Unimpaired
- pH Violations <= 10.5% = Unimpaired</p>
- pH Violations > 10.5% = Impaired
- pH 1 9 Data Points w/ 1 Violation

Many unassessed stations have single data points and are a result of Special Studies.

DO Violations w/i Threatened & Endangered Species Waters

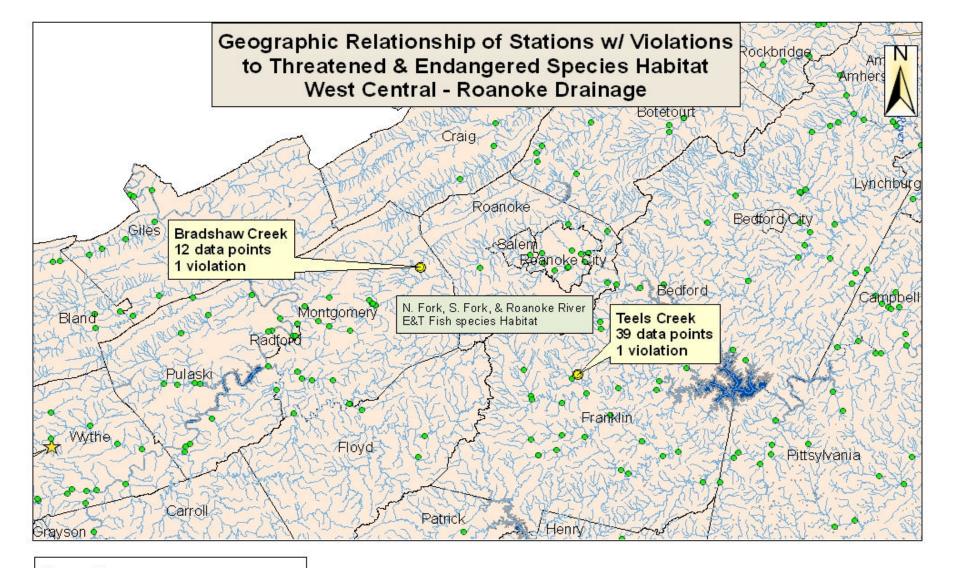
The following slides illustrate the geographic relationship of stations, assessed and unassessed for DO, to T&E species habitat.

Upper Roanoke, Upper James, and Middle James were only areas with T&E waters with fully aquatic species (mussels, fish) containing stations with DO violations directly within the T&E water body or within the immediate watershed.

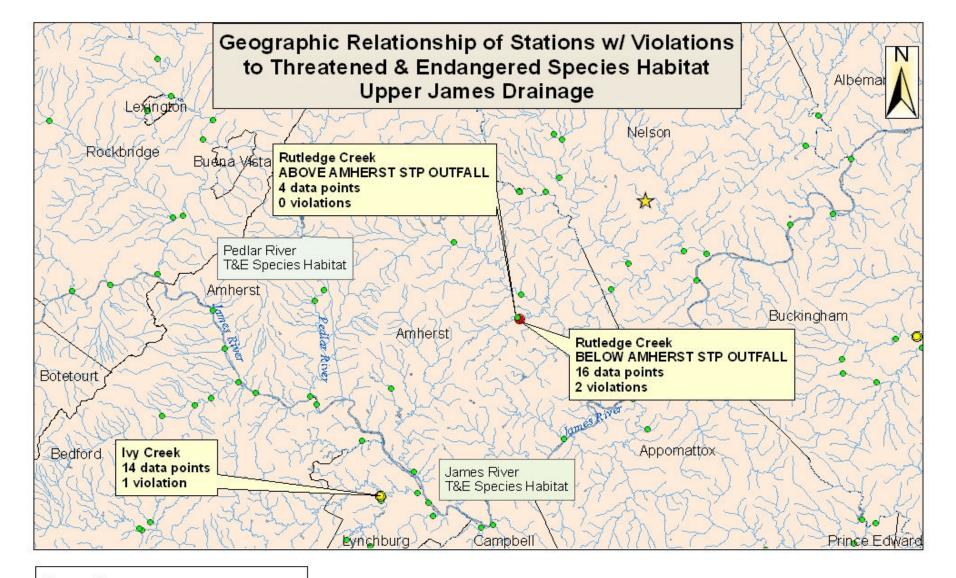


- DO Violations = 0
- DO Violation <= 10.50 % = Unimpaired
- DO Violation > 10.50% = Impaired
- 🙀 DO 1-9 Data Points w/1 Violation

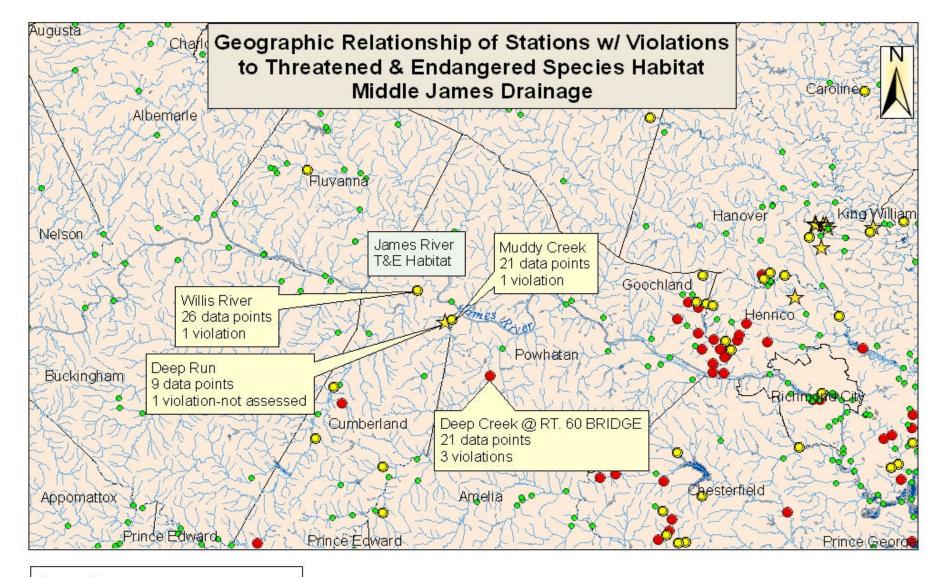
0 DO violations w/i Clinch/Powell/ Holston drainage



- DO Violations = 0
- O DO Violation <= 10.50 % = Unimpaired
- DO Violation > 10.50% = Impaired
- \star



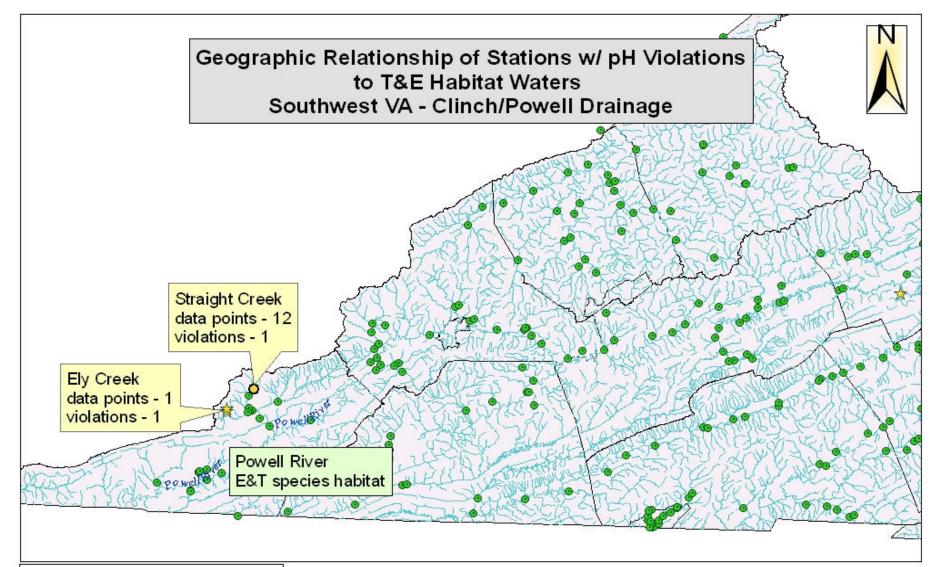
- DO Violations = 0
- DO Violation <= 10.50% = Unimpaired</p>
- DO Violation > 10.50% = Impaired
- ★ DO 1-9 Data Points w/1 Violation



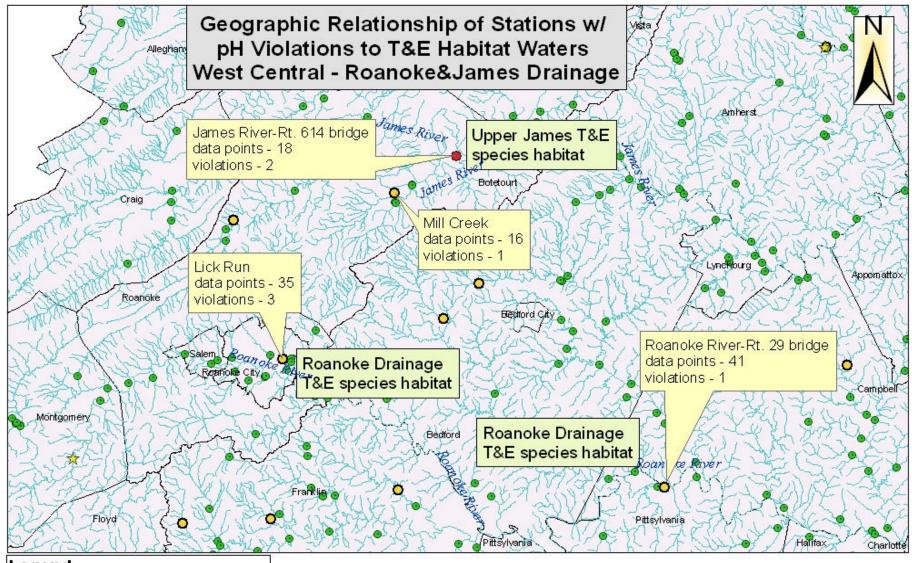
- DO Violations = 0
- O DO Violation <= 10.50 % = Unimpaired
- DO Violation > 10.50% = Impaired
- *

pH Violations w/i Threatened & Endangered Species Waters

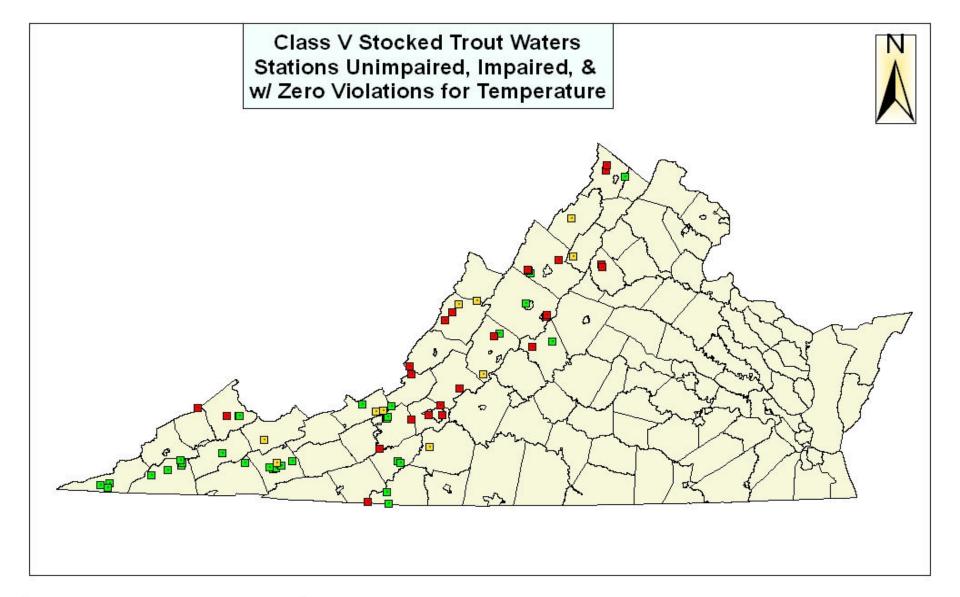
The following slides illustrate the geographic relationship of stations, assessed and unassessed for DO, to T&E species habitat.



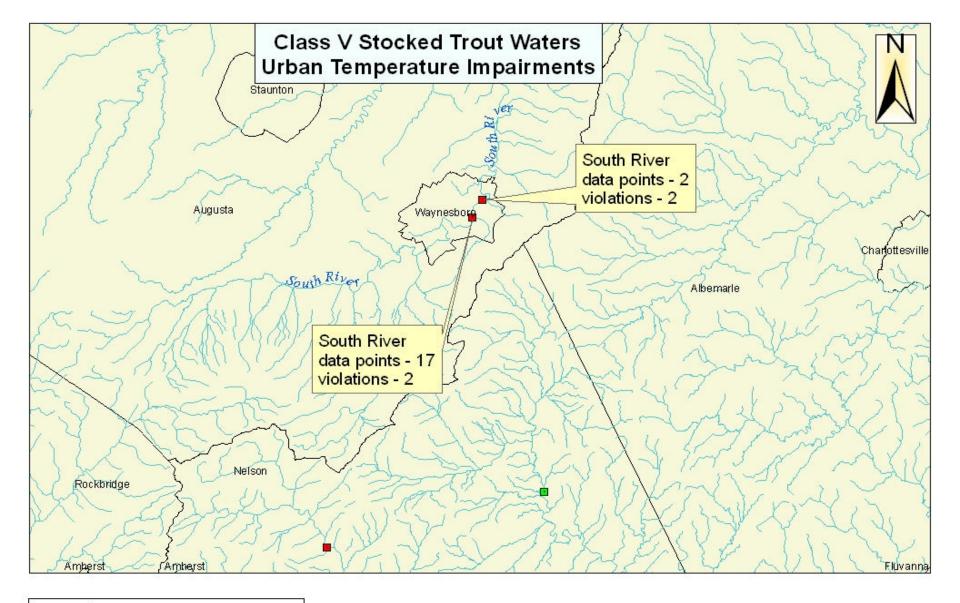
- pH Violations = 0 = Unimpaired
- pH Violations <= 10.5% = Unimpaired</p>
- pH Violations > 10.5% = Impaired
- pH 1 9 Data Points w/ 1 Violation



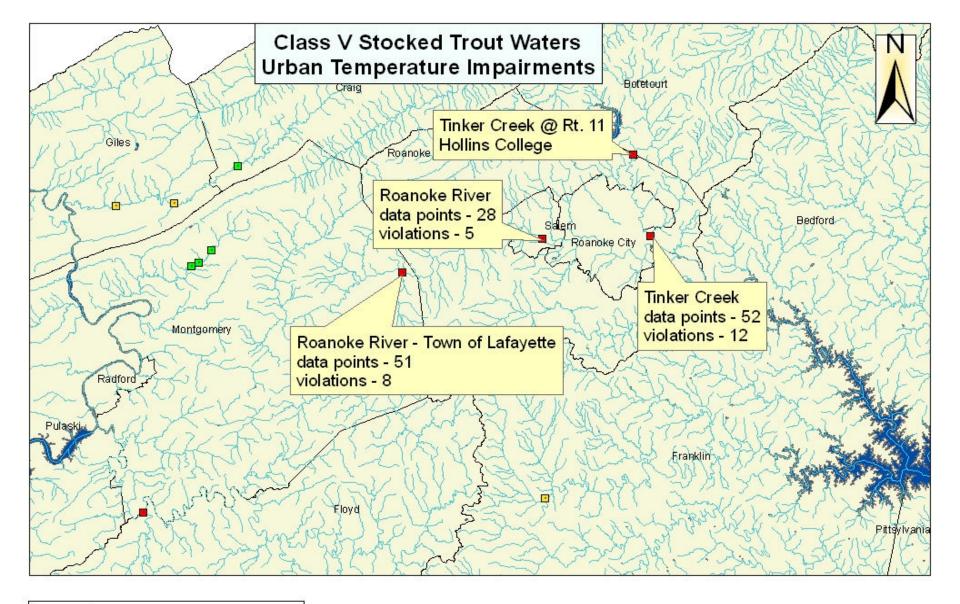
- pH Violations = 0 = Unimpaired
- pH Violations <= 10.5% = Unimpaired</p>
- pH Violations > 10.5% = Impaired



- Temp Violations <= 10.5% = Unimpaired</p>
- Temp Violations = 0 = Unimpaired
- Temp Violations > 10.5% = Impaired



- Temp Violations <= 10.5% = Unimpaired</p>
- Temp Violations = 0 = Unimpaired
- Temp Violations > 10.5% = Impaired



- Temp Violations <= 10.5% = Unimpaired</p>
- Temp Violations = 0 = Unimpaired
- Temp Violations > 10.5% = Impaired